

EN3506-1 A4-70

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

EN3506-1 A4-70 is an austenitic, acid proof stainless grade (usually 316 material - 316 or 316L) which has been cold worked to provide a minimum tensile strength of 700 N/mm. 2(MPa) "A" meaning the material is a cold worked austenitic stainless, divided into 5 grades (1-5, hence the "4") according to material characteristics (see Annex B of DIN EN ISO 3506-1:1997 for full description of each grade). The "70" denotes the minimum tensile strength to be met by the material (actually the bolt, screw or nut after manufacture)

Chemical Properties

C	Mn	Si	P	S	Cr	Mo	Ni	N
0.08	2.0	0.75	0.045	0.03	16.0-18.0	2.0-3.0	10.0-14.0	0.10

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
205	515	40

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electric Resistivity
(Kg/m ³)	(Gpa)	Expansion(μm/m/°C)			(W/m.K)		0-100°C	
8000	193	15.9	16.2	17.5	16.3	21.5	500	740

Heat Treatment

Solution Annealed @ 1050°C & Liquid Quenched @ 260°C

Equivalent Designation

UNS S31600
Werkstoff no 1.4401
EN name X5CrNiMo17-12-2
SUS 316

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